

IN THE CLAIMS

Please amend the claims as follows:

1. (currently amended) A protection device comprising:

a ground fault circuit interrupter (GFCI) having phase and neutral line side conductors for connection to a source of current and a load side for connection to a load, wherein said GFCI includes a circuit interrupting portion to automatically break a conductive path between said line side and load side upon detection of a ground fault, a reset portion to break and reset said conductive path, and a reset lockout portion to prevent said GFCI from being reset if said circuit interrupting portion is non-operational; and

a surge protection device coupled across said phase and neutral line side conductors of said GFCI, said surge protection device comprising:

a metal oxide varistor (MOV) ~~element~~ which increases in temperature when subjected to a voltage spike;

a thermal fusible layer ~~coupled to upon at least a portion of~~ a surface of said MOV ~~element~~, said thermal fusible layer capable of conducting current and adapted to ~~separate~~ form a high impedance path by separating, at least partially, or cracking, or sputtering, or melting, from the surface of the MOV ~~element~~ when the temperature of the MOV ~~element reaches~~ exceeds a predetermined temperature to form of a spark gap electrically connected in series with the MOV to help dissipate voltage surges;

a first conductor having a first end and a second end, said first end coupled directly to a first surface of said MOV ~~element~~ and said second end ~~adapted to be coupled~~ a to one of said line side conductors of said GFCI ~~source of current;~~ and

a second conductor having a third end and a fourth end, said third end coupled directly ~~coupled~~ to said thermal fusible layer and said fourth end ~~adapted to be coupled to~~ the other of said line side conductors of said GFCI ~~source of current~~ wherein said first conductor, ~~said MOV, said thermal fusible layer and said second conductor operate as an~~

~~MOV when said thermal fusible layer is held below said predetermined temperature and~~
said thermal fusible layer and said MOV ~~element~~ establish a spark gap there between
when said thermal fusible layer forms a high impedance path ~~goes above said~~
~~predetermined temperature~~ due to heat provided by said MOV ~~element~~ as it exceeds said
predetermined temperature.

2-3. (canceled)

4. (currently amended) The protection device of claim 1 wherein said MOV ~~element~~ has
a first face and a parallel, spaced apart second face and said thermal fusible ~~material~~ layer covers
less than the full extent of said first face.

5. (currently amended) The protection device of claim 4 further comprising:
a layer of insulation on said thermal fusible ~~material~~ layer; and
a connection tail extending from said thermal fusible ~~material~~ layer onto said layer of
insulation and said second conductor third end is coupled to said thermal fusible ~~material~~ layer
through said connection tail.

6.(currently amended) The protection device of claim 5 wherein said thermal fusible
~~material~~ layer and said layer of insulation ~~ore~~ are generally concentric and circular.

7.(currently amended) The protection device of claim 1 wherein said thermal fusible
~~material~~ layer is rectangular and covers less than the full extent of said surface of said MOV.

8.(currently amended) The protection device of claim 7 further comprising:
a rectangular layer of insulation upon said rectangular thermal fusible ~~material~~ layer; and

a connection tail extending from said thermal fusible ~~material~~ layer onto said layer of insulation and said second conductor third end is coupled to said thermal fusible ~~material~~ layer through said connection tail.

9.(currently amended) The protection device of claim 1 wherein said MOV ~~element~~ has a first face and a parallel, spaced apart second face and said thermal fusible ~~material~~ layer is of a cruciform shape mounted adjacent said first face.

10. (currently amended) A protection device for a metal oxide varistor (MOV) which can protect a ground fault circuit interrupter (GFCI) comprising:

a GFCI having phase and neutral line side conductors for connection to a source of current and a load side for connection to a load, wherein said GFCI includes a circuit interrupting portion to automatically break a conductive path between said line side and load side upon detection of a ground fault, a reset portion to break and reset said conductive path, and a reset lockout portion to prevent said GFCI from being reset if said circuit interrupting portion is non-operational; and

a surge protection device coupled across said phase and neutral line side conductors of said GFCI, said surge protection device comprising:

a first semi-circular segment MOV ~~element~~ defined by a first straight side edge and a first curved side edge;

a second semi-circular segment MOV ~~element~~ defined by a second straight side edge and a second curved side edge;

said first semi-circular segment and said second semi-circular segment generally describing a circular MOV ~~element~~ when said first straight side edge is held parallel with said second straight side edge;

said first semi-circular segment MOV ~~element~~ and said second semi-circular segment MOV ~~element~~ heat up when exposed to voltage spikes;

said first semi-circular segment having a first front surface and a first rear surface, said second semi-circular segment having a second front surface and a second rear surface;

a thermal fusible ~~material~~ layer extending between said first semi-circular segment first straight edge surface and said second semi-circular segment second straight edge surface, said thermal fusible ~~material~~ layer capable of conducting current there through and adapted to form a high impedance path by separating, at least partially, or cracking, or sputtering, or melting, from the first and second MOV segments when the temperature of the MOV exceeds having a predetermined temperature at which it melts to form a spark gap electrically connected in series with the MOV to help dissipate voltage surges;

a first conductor having a first end and a second end, said first end coupled to one of said first front or first rear surfaces of said first semi-circular segment and said second end coupled to a one of said line side conductors of said GFCI ~~source of current;~~ and

a second conductor having a third end and a fourth end, said third end coupled to one of said second front or second rear surfaces of said second semi-circular segments and said fourth end coupled to the other of said line side conductors of said GFCI ~~source of current~~ whereby current is permitted to flow through ~~said first conductor, said first semi-circular segment, said thermal fusible material layer, said second semi-circular segment and said second conductor when said thermal fusible material layer is held below said predetermined temperature and~~ said first straight edge surface of said first semi-circular segment and said second straight edge surface of said second semi-circular segment establish a spark gap there between when said thermal fusible layer forms a high impedance path goes above said predetermined temperature and melts due to the heat provided by said first and second MOV segments as it exceeds said predetermined temperature.

11.(currently amended) The protection device of claim 10 further comprising;

a layer of insulation surrounding said first front surface, said first curved side surface, said first rear surface, a rear surface of said thermal fusible ~~material~~ layer, said second rear surface, said second curved side surface, said second front surface and a front surface of said thermal fusible ~~material~~ layer.

12. (currently amended) The protection device of claim ~~12~~ 11 wherein said layer of insulation has a top surface and a bottom surface.

13. (currently amended) The protection device of claim ~~13~~ 12 further comprising:
an air gap extending from said layer of insulation top surface to said bottom surface along one side of said thermal fusible ~~material~~ layer.